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Economic Geology of the United States. By HEINRICH RIES, A.M., PH.D. New York: Macmillan Co., 1905. Pp. 435, 25 plates, 97 figures.

To say that this work is designed as a textbook will give a general idea of its nature. The arrangement is somewhat different from that of other works on this subject, in that the non-metallic minerals are discussed first. The reason assigned is that the non-metallic are more important and their deposits simpler. The order of treatment is: Part I, "Coal; Petroleum, Natural Gas, and Other Hydrocarbons; Building Stones; Clay; Lime and Calcareous Cements; Salines; Gypsum; Fertilizers; Abrasives; Minor Minerals; Water; Soils and Road Materials;" Part II, "Ore Deposits; Iron; Copper; Lead and Zinc; Gold and Silver; Silver-Lead; Aluminum, Manganese, and Mercury; Minor Metals."

E. W. S.

Structural Features of the Joplin District. By C. E. SIEBENTHAL. (*Economic Geology*, Vol. I, No. 2, November-December, 1905, pp. 119-28.) *Discussion* by H. FOSTER BAIN. (*Ibid.*, pp. 172-73.)

This paper is of especial interest in that it shows a way in which incorrect conclusions may be drawn as to the throw of faults. Throws of 150 feet or more have been described for the Joplin district. Shale is found in horizontal juxtaposition with limestone strata whose normal position is 150 feet below. These conditions vary much in short distances, and the author accounts for them by showing (1) that the shale is unconformable on the limestone and was laid down on an uneven erosion surface; (2) that solution and the giving way of roofs of caverns have let blocks of strata down; and (3) that there has been faulting of much less throw.

E. W. S.

Geological Survey of North Dakota. Third Biennial Report. By A. G. LEONARD and Assistant Geologists. Bismarck, 1904. Pp. 217, 33 plates, 8 figures, 2 maps.

This work contains articles on "Lignite on the Missouri, Heart, and Cannon Ball Rivers, and its Relation to Irrigation;" "Report on the Region between the Northern Pacific Railroad and the Missouri River;" "Topography of North Dakota;" "Geological Formations of North Dakota;" "Methods of Stream Measurements;" "The Run-off of the Streams in North Dakota."

E. W. S.